## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY **PCT RONALD I. EISENSTEIN** NIXON PEABODY LLP 100 SUMMER STREET WRITTEN OPINION OF THE BOSTON, MA 02110 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 701586-54551-PCT International application No. International filing date (day/month/year) Priority date (day/month/year) 09 October 2003 (09.10.2003) 08 October 2004 (08.10.2004) International Patent Classification (IPC) or both national classification and IPC IPC(7): A61K 39/00; A01N 43/04; A61K 31/70 and US CL: 424/198.1; 514/44 Applicant TRUSTEES OF BOSTON UNIVERSITY 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/US Date of completion of this opinion Authorized officer Mail Stop PCT, Attn: ISA/US Jo Ann Rinaudo 09 November 2005 (09.11.2005) Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571.272.1600

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Facsimile No. (571) 273-3201

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International Stration No.

PCT/US04/33178-

Box No	o. I Basis of this opinion		
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1. With 1	regard to the language, this opinion has been established on the basis of:		
$\boxtimes$	the international application in the language in which it was filed		
	a translation of the international application into, which is the lan international search (Rules 12.3(a) and 23.1(b)).	guage of a translation furnished for the purposes of	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
a.	type of material		
	a sequence listing		
	table(s) related to the sequence listing		
	_		
b.	format of material		
	on paper		
	in electronic form		
_	time of filing/furnishing	·	
c.	contained in the international application as filed.		
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	filed together with the international application in electronic form	n. ·	
	furnished subsequently to this Authority for the purposes of search	ch.	
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3. 🔲	In addition, in the case that more than one version or copy of a sequence	e listing and/or table(s) relating thereto has been filed	
	or furnished, the required statements that the information in the substapplication as filed or does not go beyond the application as filed, as application as filed or does not go beyond the application as a filed or does not go beyond the application as a filed or does not go beyond the application as a filed or does not go beyond the application as a filed or does not go beyond the application as a filed or does not go bey	equent or additional copies is identical to that in the oppopriate, were furnished.	
4. Additional comments:			
4. Auditi	ional confinence.		
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International	
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Box No. IV Lack of unity of invention		
1.	Detroit and the second of the	
2.	pay additional fees.	
3.	3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is	
	complied with	
	not complied with for the following reasons:	
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)	
4. C	Consequently, this opinion has been established in respect of the following parts of the international application:	
	all parts.	
	the parts relating to claims Nos. <u>13-16</u>	
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Form PCT/ISA/237 (Box No. IV) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 1-12 and 17-20 Claims 13-16 YES Inventive step (IS) Claims 1-12 and 17-20 Claims 13-16 Claims 1-12 and 17-20 Industrial applicability (IA) Claims 13-16\_ 2. Citations and explanations: The A references, state of the art describes adiponectin is an inhibitor of angiogenesis in vitro and in transgenic mice (see Diez et al., Matsuda et al., and Kubota et al.). Claims 13-17 lack unity because it is obvious to put the product in a kit for either stimulation or inhibition of angiogenesis. The intended use of the product does not matter. The T references, identify adiponectin as a stimulator of angiogenesis in response to tissue ischemia (see Ouchi et al. and Shibata et al.). The method of stimulating angiogenesis using adiponectin is novel.